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Job No.: CECTC-ASM-W.No.06-2016-17 **Date:** 04.06.2016

Aggregate Impact Value
IS: 2386 Part IV

Client	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**Sri.Arjun S.M,** Contractor, Bangalore.
Name of the Work	Pot hole filling and road patch work in Tanisandra Surrounding area in ward no.06 Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	BBMP/EE/BTP/WO/46/2016-17 Dated:27.05.2016
Type of Mix	Wet Mix macadam
Date of Testing	04.06.2016

Sl No.	Details	Trial No. 1	Trial No. 2	Trial No. 3	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	386	387	388	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	90	88	91	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	296	299	297	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	23.32	22.74	23.45	**23.17**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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Job No.: CECTC-ASM-W.No.06-2016-17 Date : 04.06.2016

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency : **Sri.Arjun S.M,** Contractor, Bangalore.
Name of Work : Pot hole filling and road patch work in Tanisandra Surrounding area in ward no.06 Byatarayanapura Sub Division, BBMP, Bangalore.
Reference : BBMP/EE/BTP/WO/46/2016-17 Dated:27.05.2016
Date of Testing : 04.06.2016
Material Type : Wet Mix Macadam

Oven Dry.Wt 12336

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	471	471	3.8	96.2	95-100
22.4	4063	4534	36.8	63.2	60-80
11.2	2514	7048	57.1	42.9	40-60
4.75	1689	8737	70.8	29.2	25-40
2.36	1320	10057	81.5	18.5	15-30
0.600	1147	11204	90.8	9.2	8-22
0.075	802	12006	97.3	2.7	0-8

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Job No.: CECTC-ASM-W.No.06-2016-17 Date : 04.06.2016

ATTERBERG LIMITS TEST FOR WMM
MORTH TABLE-400-11

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.Arjun S.M,** Contractor, Bangalore.

Name of Work : Pot hole filling and road patch work in Tanisandra Surrounding area in ward no.06 Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/46/2016-17 Dated:27.05.2016

Date of Testing : 04.06.2016

Material Type : Wet Mix Macadam

As per MORTH Table 400-13

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit	23.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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JobNo: CECTC-ASM-W.No.06-2016-17 Date : 04.06.2016

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.Arjun S.M,** Contractor, Bangalore.

Name of Work : Pot hole filling and road patch work in Tanisandra Surrounding area in ward no.06 Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/46/2016-17 Dated:27.05.2016

Technical Reference : IS 2386(Part 1) 1963 (RA 2007) and MORTH 5th Revision

Type of Mix : Wet Mix Macadam

Date of Testing : 04.06.2016

Passing through IS Sieve, mm	Retained On IS Sieve, mm	Weight of Sieved Fraction (W) gms		Proportion of Size range in the sample, X = 100xW/ΣW		Weight of 200 pieces of aggregates of the range, (P) in gms		Thickness gauge size, mm	Weight of flaky particles (F)in gms		Weight of fraction consisting of at least 200 Pieces in gms		Length gauge size in mm	Weight of aggregates in each fraction retained on Length gauge in gms	
63.00	50.00	W1		X1		P1		33.90	F1		P1		-	E1	
50.00	40.00	W2	3865	X2	24.42	P2	1985	27.00	F2	311	P2	1985	81.00	E2	256
40.00	31.50	W3	2466	X3	15.58	P3	1465	21.50	F3	202	P3	1465	58.00	E3	157
31.50	25.00	W4	2311	X4	14.60	P4	1265	16.95	F4	174	P4	-	-	E4	-
25.00	20.00	W5	2210	X5	13.96	P5	1132	13.50	F5	155	P5	1132	40.50	E5	105
20.00	16.00	W6	1987	X6	12.55	P6	1087	10.80	F6	114	P6	1087	32.40	E6	95
16.00	12.50	W7	1545	X7	9.76	P7	958	8.55	F7	98	P7	958	25.50	E7	68
12.50	10.00	W8	948	X8	5.99	P8	633	6.75	F8	84	P8	633	20.20	E8	52
10.00	6.30	W9	498	X9	3.15	P9	355	4.89	F9	63	P9	355	14.70	E9	45
		Σ W	**15830.0**			**ΣP**	**8880.0**		**ΣF**	**1201.0**	**ΣP**	**7615.0**		**ΣE**	**778.0**

Result : Flakiness Index = **13.52%**

Elongation Index = **10.22%**

Result : Combined Flakiness & Elongation index **23.74%**

Comments: → Maximum Combined flakiness and Elongation indices value for Wet mix Macadam is 35%.

For Civil Expert

Authorised Signature

Note:

→ The results indicated above are based on the tests carried out on the samples received in the laboratory.

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Job No.: CECTC-ASM-W.No.06-2016-17 Date: 08.06.2016

TEST REPORT

Client	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Sri.Arjun S.M,** Contractor, Bangalore.
Name of the work	:	Pot hole filling and road patch work in Tanisandra Surrounding area in ward no.06 Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	:	BBMP/EE/BTP/WO/46/2016-17 Dated:27.05.2016
Source of location	:	Hot mix Plant, Bangalore
Date of testing	:	08.06.2016

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	66	60 to 70
2	Softening point, ^{0}C	48	Min. 45
3	Ductility at 27^{0}C, cm	100 >	Min. 50
4	Flash Point, ^{0}C	298	Min. 220

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Job No.: CECTC-ASM-W.No.06-2016-17 Date: 08.06.2016

Aggregate Impact Value

IS: 2386 Part IV

Client	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**Sri.Arjun S.M,** Contractor, Bangalore.
Name of the Work	Pot hole filling and road patch work in Tanisandra Surrounding area in ward
Reference	BBMP/EE/BTP/Wo/46/2016-17 Dated:27.05.2016
Source / Location	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	08.06.2016

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	381	380	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	90	91	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	291	289	
4	Aggregate Impact value = percent fines 100* (W_2/W_1) percent	23.62	23.95	**23.78**

Comments:
→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%

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Job No.: CECTC-ASM-W.No.06-2016-17 Date : 08.06.2016

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.Arjun S.M,** Contractor, Bangalore.

Name of Work : Pot hole filling and road patch work in Tanisandra Surrounding area in ward no.06 Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : BBMP/EE/BTP/Wo/46/2016-17 Dated:27.05.2016

Technical Reference : IS 2386(Part 1) 1963 (RA 2007)

Type of Mix : Bituminous Concrete

Date of Testing : 08.06.2016

Passing through IS Sieve, mm	Retained On IS Sieve, mm	Weight of Sieved Fraction (W) gms		Proportion of Size range in the sample, X = 100xW/ΣW		Weight of 200 pieces of aggregates of the range, (P) in gms		Thickness gauge size, mm	Weight of flaky particles (F)in gms		Percentage by Weight of flaky aggregates in gms Y= 100xF/P	Weighed Percentage of flaky aggregates in gms XY=X × Y	Weight of fraction consisting of at least 200 Pieces in gms		Length gauge size in mm	Weight of aggregates in each fraction retained on Length gauge in gms	
63.00	50.00	W1		X1		P1		33.90	F1				P1		-	E1	
50.00	40.00	W2		X2		P2		27.00	F2				P2		81.00	E2	
40.00	31.50	W3		X3		P3		21.50	F3				P3		64.40	E3	
31.50	25.00	W4		X4		P4		16.95	F4				P4	-	-	E4	-
25.00	20.00	W5		X5		P5		13.50	F5				P5			E5	
20.00	16.00	W6	1685	X6	38.50	P6	1147	10.80	F6	174	15.17	584.00	P6	1147.0	32.40	E6	147
16.00	12.50	W7	1433	X7	32.74	P7	1036	8.55	F7	122	11.78	385.54	P7	1036.0	25.60	E7	95
12.50	10.00	W8	847	X8	19.35	P8	611	6.75	F8	91	14.89	288.21	P8	611.0	20.20	E8	75
10.00	6.30	W9	412	X9	9.41	P9	369	4.89	F9	76	20.60	193.87	P9	369.0	14.70	E9	48
		Σ W	**4377.0**									**ΣXY 1451.61**	**ΣP**	**3163.0**		**ΣE**	**365.0**

AE-06 n/a

Result : Flakiness Index = **14.52%**

Elongation Index = **11.54%**

Result : Combined Flakiness & Elongation index **26.06%**

Comments: Maximum Allowable Combined flakiness and Elongation indices 35%

Note:

→ The results indicated above are based on the tests carried out on the samples received in the laboratory.

or Civil Expert

Authorised Signature

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Job No.: CECTC-ASM-W.No.06-2016-17

08.06.2016

Specific Gravity And Water Absorption Test
IS: 2386 Part III

Client	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**Sri.Arjun S.M,** Contractor, Bangalore.
Name of the Work	Pot hole filling and road patch work in Tanisandra Surrounding area in ward no.06
Reference	BBMP/EE/BTP/Wo/46/2016-17 Dated:27.05.2016
Type of Mix	Bituminous Concrete
Date of Testing	08.06.2016

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2028	2030	2029	
2	Weight of basket suspended in water	W_2 g	755	755	755	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1273	1275	1274	
4	Weight of saturated surface dry aggregate in air	W_3 g	2017	2019	2018	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	744	744	744	
6	Weight of oven dried aggregate	W_4 g	2008	2007	2006	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.699	2.698	2.696	2.698
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.732	2.742	2.740	2.738
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.45%	0.60%	0.60%	0.55%

Comments:
→ Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%

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Job No.: CECTC-ASM-W.No.06-2016-17 09.06.2016

Aggregate Gradation Test
IS : 2386 Part I

Client	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**Sri.Arjun S.M,** Contractor, Bangalore.
Name of theWork	Pot hole filling and road patch work in Tanisandra Surrounding area in ward
Reference	BBMP/EE/BTP/Wo/46/2016-17 Dated:27.05.2016
Sample I / D	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	09.06.2016

Total Weight of Sample: **5270** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	JOBMIX Gradation as per MORTH	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	475	9.01	9.01	90.99	79 - 100	
9.5	510	9.68	18.69	81.31	70 - 88	
4.75	652	12.37	31.06	68.94	53 - 71	
2.36	613	11.63	42.69	57.31	42 - 58	
1.18	536	10.17	52.87	47.13	34 - 48	
0.600	622	11.80	64.67	35.33	26 - 38	
0.300	748	14.19	78.86	21.14	18 - 28	
0.150	402	7.63	86.49	13.51	12 - 20	
0.075	404	7.67	94.16	5.84	4 - 10	

Total Weight of Sample: **5250** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	JOBMIX Gradation as per MORTH	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	632	12.04	12.04	87.96	79 - 100	
9.5	503	9.58	21.62	78.38	70 - 88	
4.75	623	11.87	33.49	66.51	53 - 71	
2.36	511	9.73	43.22	56.78	42 - 58	
1.18	622	11.85	55.07	44.93	34 - 48	
0.600	603	11.49	66.55	33.45	26 - 38	
0.300	487	9.28	75.83	24.17	18 - 28	
0.150	620	11.81	87.64	12.36	12 - 20	
0.075	422	8.04	95.68	4.32	4 - 10	

For Civil Expert

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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-ASM-W.No.06-2016-17

Date: 09.06.2016

TEST REPORT ON STABILITY OF MIX

Client	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Sri.Arjun S.M,** Contractor, Bangalore.
Name of the Work	:	Pot hole filling and road patch work in Tanisandra Surrounding area in ward no.06 Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	:	BBMP/EE/BTP/Wo/46/2016-17 Dated:27.05.2016
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	09.06.2016

The results of the tests conducted on the bituminous concrete mix sample are as follows

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.14	9.57	9 Kn (min)
2	Marshal flow, mm	3.26	2.44	2 – 4
3	Percent air voids in Mineral Aggregate	13.52	14.78	13 – 15
4	Voids in Compacted Mix	3.21	3.85	3 – 6
5	Percent Voids filled with Bitumen	72.32	71.48	65 - 75
6	Density, g/cc	2.26	2.27	--

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Job No: CECTC-ASM-W.No.06-2016-17 Date 09.06.2016

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE
AASHTO T 164 & AASHTO T 30

CLIENT	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	**Sri.Arjun S.M,** Contractor, Bangalore.
NAME OF THE WORK	Pot hole filling and road patch work in Tanisandra Surrounding area in ward no.06 Byatarayanapura Sub Division, BBMP, Bangalore.
REFERENCE	BBMP/EE/BTP/Wo/46/2016-17 Dated:27.05.2016
SAMPLE I/D	Sample Supplied by Agency
DATE OF TESTING	09.06.2016

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	469.5	470
3. Weight of Asphalt and Mineral matter Extracted, g	30.5	30
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	30.5	30
7. Bitumen content in %	6.10	6.00
8. Average	6.05	

GRADATION AFTER EXTRACTION

TABLE - 1

Sieve size in mm	Percent Passing, %		Specified Limits as per MORTH specification table 500-18 (Grading-2)
	Sample 1	Sample 2	
19	100.00	100.00	100
13.2	93.45	92.65	90-100
9.5	81.70	80.36	70-88
4.75	63.62	62.51	53-71
2.36	46.21	45.23	42-58
1.18	43.69	44.52	34-48
0.6	34.25	33.41	26-38
0.3	24.14	25.63	18-28
0.15	17.45	17.85	12-20
0.075	5.82	6.16	4-10

Note:
⇒ This test report should not be reproduced except in full, without written approval of the laboratory
⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory
⇒ Any Query regarding the report must be reported within 90 days from the date of testing

For Civil Expert

Authorised Signature